First,you have to load bootloader code into the microcontroller. For that, I used Arduino Uno for in-system programming (ISP) given in the IDE, by selecting File → Examples → Arduino ISP. Once the bootloader is uploaded into the microcontroller, gesture.ino code of this project can be uploaded.

Source code

*const int ap1 = A0;*

*const int ap2 = A1;*

*int sv1 = 0;*

*int ov1 = 0;*

*int sv2 = 0;*

*int ov2= 0;*

*void setup()*

*{ // initialize serial communications at 9600 bps:*

*Serial.begin(9600);*

*pinMode(13,OUTPUT);*

*pinMode(12,OUTPUT);*

*pinMode(11,OUTPUT);*

*pinMode(10,OUTPUT);*

*}*

*void loop()*

*{ analogReference(EXTERNAL); //connect 3.3v to AREF*

*// read the analog in value:*

*sv1 = analogRead(ap1);*

*ov1 = map(sv1, 0, 1023, 0, 255);*

*delay(2);*

*sv2 = analogRead(ap2);*

*ov2 = map(sv2, 0, 1023, 0, 255);*

*delay(2);*

*Serial.print(“Xsensor1 = ” );*

*Serial.print(sv1);*

*Serial.print(“\t output1 = “);*

*Serial.println(ov1);*

*Serial.print(“Ysensor2 = ” );*

*Serial.print(sv2);*

*Serial.print(“\t output2 = “);*

*Serial.println(ov2);*

*if(analogRead(ap1)<514 &&analogRead (ap2)<463) // for backward movement*

*{*

*digitalWrite(13,HIGH);*

*digitalWrite(12,LOW);*

*digitalWrite(11,HIGH);*

*digitalWrite(10,LOW);*

*}*

*else*

*{*

*if(analogRead(ap1)<486 &&analogRead (ap2)>508) // for left turn*

*{*

*digitalWrite(13,LOW);*

*digitalWrite(12,HIGH);*

*digitalWrite(11,HIGH);*

*digitalWrite(10,LOW);*

*}  
else*

*{*

*if(analogRead(ap1)>512 &&analogRead (ap2)>560) // for forward*

*{*

*digitalWrite(13,LOW);*

*digitalWrite(12,HIGH);*

*digitalWrite(11,LOW);*

*digitalWrite(10,HIGH);*

*}*

*else*

*{*

*if(analogRead(ap1)>550 &&analogRead (ap2)>512)//for right turn*

*{*

*digitalWrite(13,HIGH);*

*digitalWrite(12,LOW);*

*digitalWrite(11,LOW);*

*digitalWrite(10,HIGH);*

*}*

*else*

*{*

*digitalWrite(13,HIGH);*

*digitalWrite(12,HIGH);*

*digitalWrite(11,HIGH);*

*digitalWrite(10,HIGH);*

*}*